JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289345	00 of 06	1

CONTRACTOR : ABB CONTRACTING CO. LTD.

CUSTOMER : NATIONAL GRID – SAUDI ARABIA / SEC–COA

PROJECT : REINFORCEMENT OF EXISTING 132/33kV SUBSTATION #8501
AL–MAJMAH SUBSTATION

CONTRACT NO. : –

PLANT NO. : C424

JOB ORDER NO. : 11131061/00

PANEL NAME : NEW 125V DC DISTRIBUTION BOARD
(SINGLE LINE DIAGRAM)

NOTES

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO.
DRAWING CONTROL SHEET	CE-289148
ONE LINE DIAGRAM - DC AUXILIARY SYSTEM	CA-289211

AS-BUILT BY _____ - _____ DATE _____ - _____

REV. NO.	DATE	BY	DESCRIPTION	CHKD.	CERT.	APPD.
1	29.04.13	EMM	REV. AS PER COMMENTS	CV	CV	DA
0	16.02.13	EMM	ISSUED FOR APPROVAL	CV	CV	DA

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National Grid SA

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SINGLE LINE DIAGRAM COVER PAGE

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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SHEET	DESCRIPTION	REVISION						
		0	1	–	–	–	–	–
0	COVER SHEET	X	X					
1	INDEX	X	X					
2	LEGEND & SYMBOLS	X	X					
3	SINGLE LINE DIAGRAM	X	X					
4	SINGLE LINE DIAGRAM	X	X					
5	SINGLE LINE DIAGRAM	X	X					
6	SINGLE LINE DIAGRAM	X	X					
7	SINGLE LINE DIAGRAM	X	X					
8	SINGLE LINE DIAGRAM	X	X					
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NOTES

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ONE LINE DIAGRAM - DC AUXILIARY SYSTEM	CA-289211

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INDEX

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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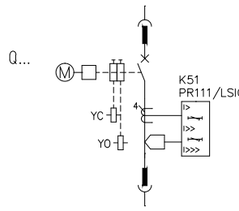
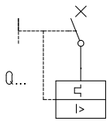
JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289345	02 of 06	1



ACB,D/O TYPE



MOULDED CASE
CIRCUIT BREAKER

T... CURRENT TRANSFOMER

MNIATURE
CIRCUIT BREAKER
FOR CONTROL CIRCUIT

RELAY COIL

TIME DELAY RELAY
DELAY ON PICK-UP

P... (A) AMMETER

P... (V) VOLTMETER

-27/59 UNDER/OVER VOLTAGE RELAY

-27 UNDER VOLTAGE RELAY

MAKE CONTACT

BREAK CONTACT

CHANGE-OVER CONTACT

MAKE CONTACT
DELAYED WHEN OPERATING

BREAK CONTACT
DELAYED WHEN OPERATING

SOCKET OUTLET

PLUG

SELECTOR
SWITCH

PUSHBUTTON
SPRING RETURN

VOLTMETER/AMMETER
SELECTOR SW.

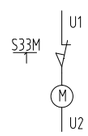
TOROIDAL CT
FOR EARTH FAULT PROT.

ACB "IN SERVICE"
CONTACT

ACB TRIP
CONTACT

ACB CLOSING COIL

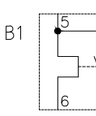
ACB OPENING COIL



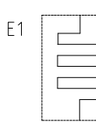
ACB MOTOR CIRCUIT

INDICATION LAMP

BLOCKING DIODE



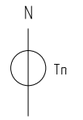
THERMOSTAT



SPACE HEATER

DOOR SWITCH

NEUTRAL LINK

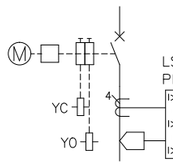


FOR EARTH FAULT PROT.
EXTERNAL NEUTRAL CT

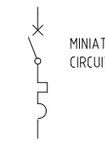
RD1 EARTH FAULT
PROT. RELAY

SHUNT OPEN INC.
RELEASE SUPERVISION
RELAY

X... ⌀ TERMINAL BLOCK



MOULDED CASE
CIRCUIT BREAKER
ELECTRONIC RELEASE
WITH MOTOR


MINIATURE
CIRCUIT BREAKER

NOTES

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ONE LINE DIAGRAM - DC AUXILIARY SYSTEM	CA-289211

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LEGEND & SYMBOLS

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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SEC-D (2004/10)

DMS VECTOR SECD00

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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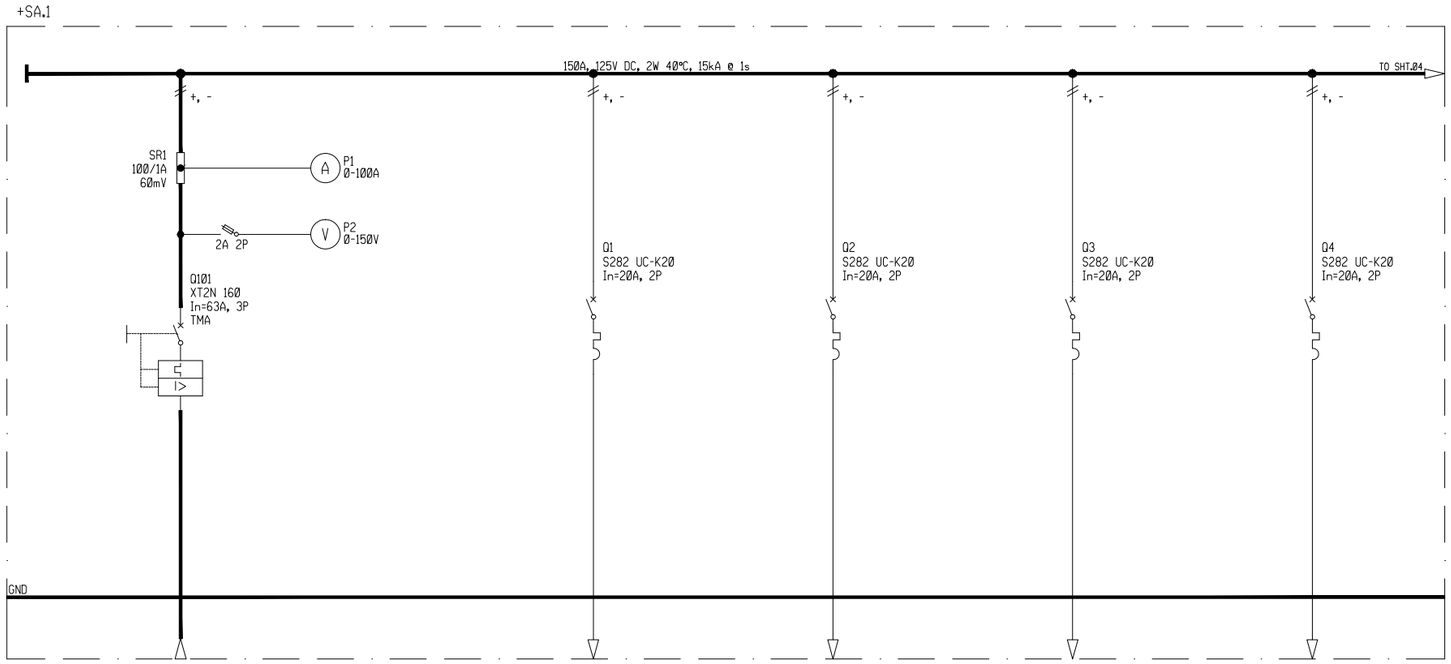

EQUIPMENT LABEL	-	-	-	-	-
ITEM DESCRIPTION	FROM EXISTING DCDB - - -	132kV PROTN SET-1 (GT3) - - -	132kV PROTN SET-2 (GT3) - - -	AVC PANEL SUPPLY-1 - - -	AVC PANEL SUPPLY-2 - - -
RATING (A, kW, kVA)	63A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.1	+SA.1	+SA.1	+SA.1	+SA.1
MODULE SIZE	-	-	-	-	-
MODULE LOC.	-	-	-	-	-
CABLE SIZE	2-1Cx70sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

NOTES

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BY - DATE -

SINGLE LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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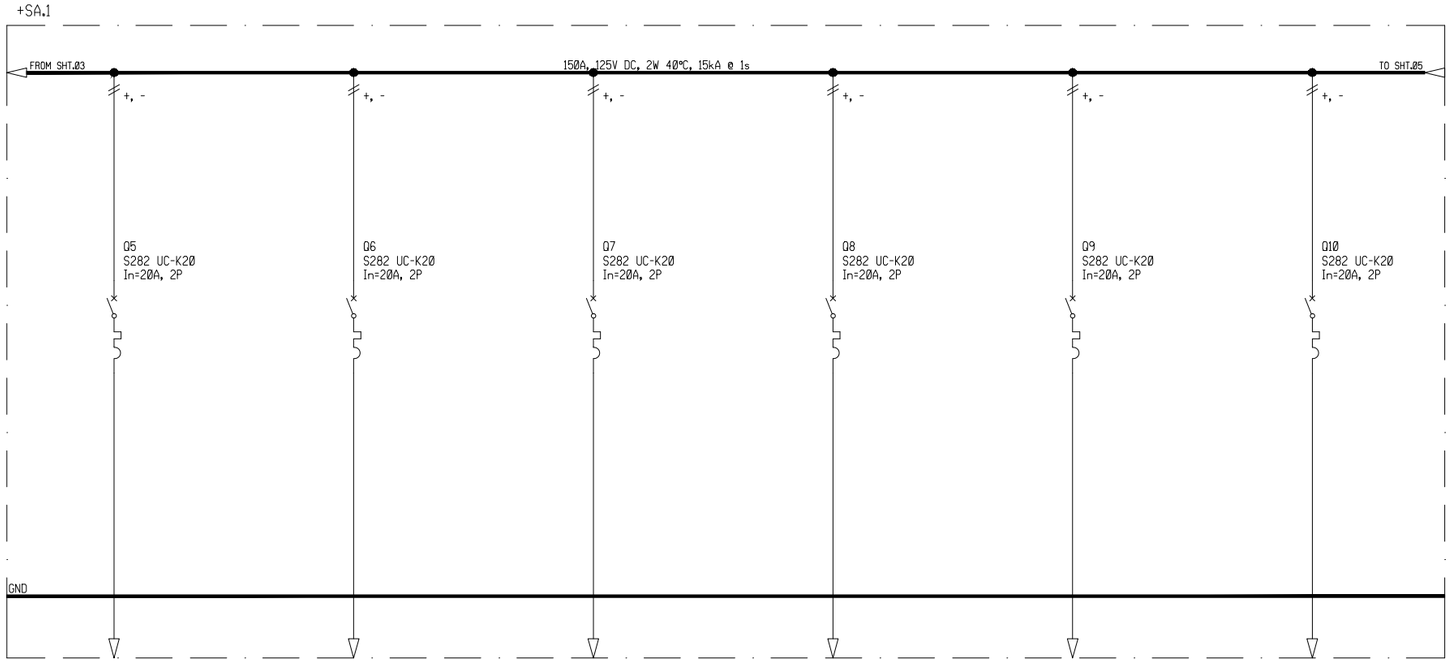

EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	REVENUE METERING PANEL - - -	NEW LIGHTING PANEL CONTROL SUPPLY - -	NEW POWER PANEL CONTROL SUPPLY - - -	EMERGENCY LIGHTING ILLUMINATION IN PANEL - -	EMERGENCY LIGHTING SUPPLY-1 - - -	EMERGENCY LIGHTING SUPPLY-2 - - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.1	+SA.1	+SA.1	+SA.1	+SA.1	+SA.1
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

NOTES

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SINGLE LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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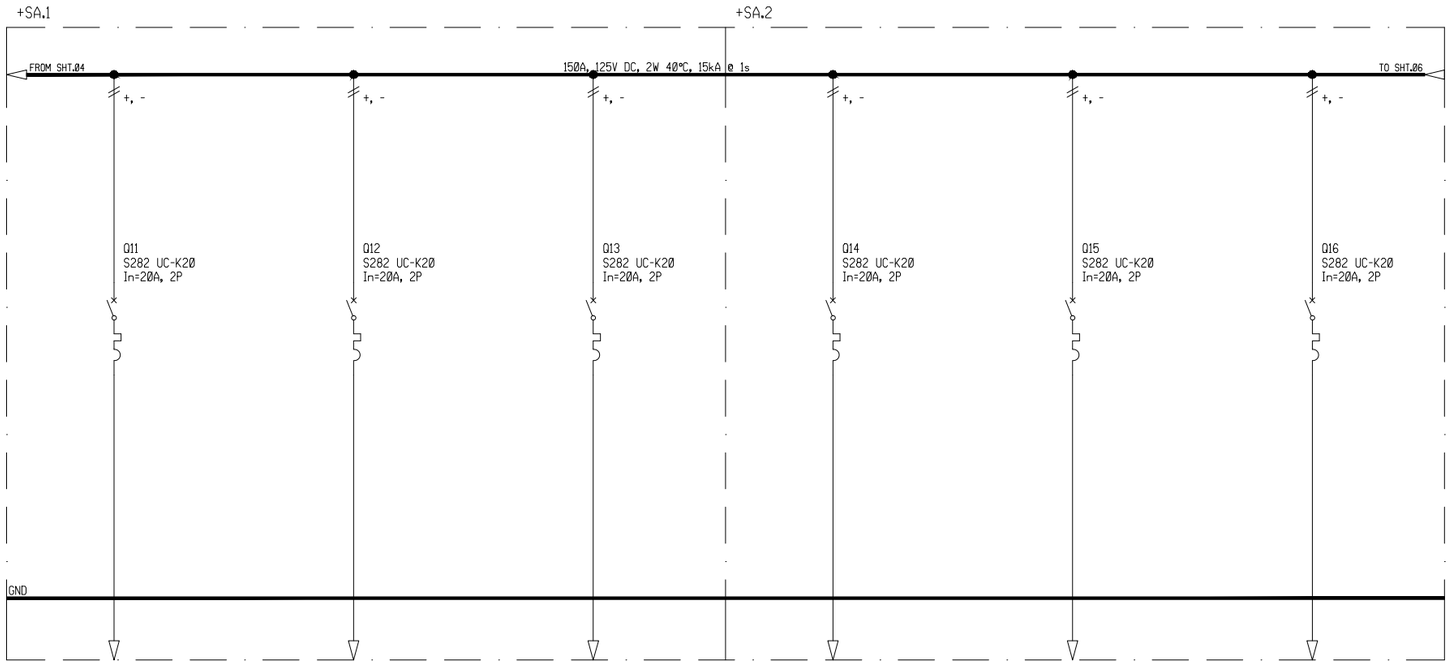

EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	LOCAL CONTROL CABINET (NEW GT3) - - -	AUTO CHANGE OVER SWITCHING PANEL - - -	33kV BUS SECTION-C CB ALARM SIGNALLING - -	33kV BUS SECTION-C I/C CB ALARM & SIGNALLING - -	33kV BUS SECTION-C O/G CB ALARM & SIGNALLING - -	33kV BUS SECTION-C OPERATING MECHANISM - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.1	+SA.1	+SA.1	+SA.2	+SA.2	+SA.2
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

NOTES

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SINGLE LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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SEC-D (2004/10)

DMS VECTOR SECD00

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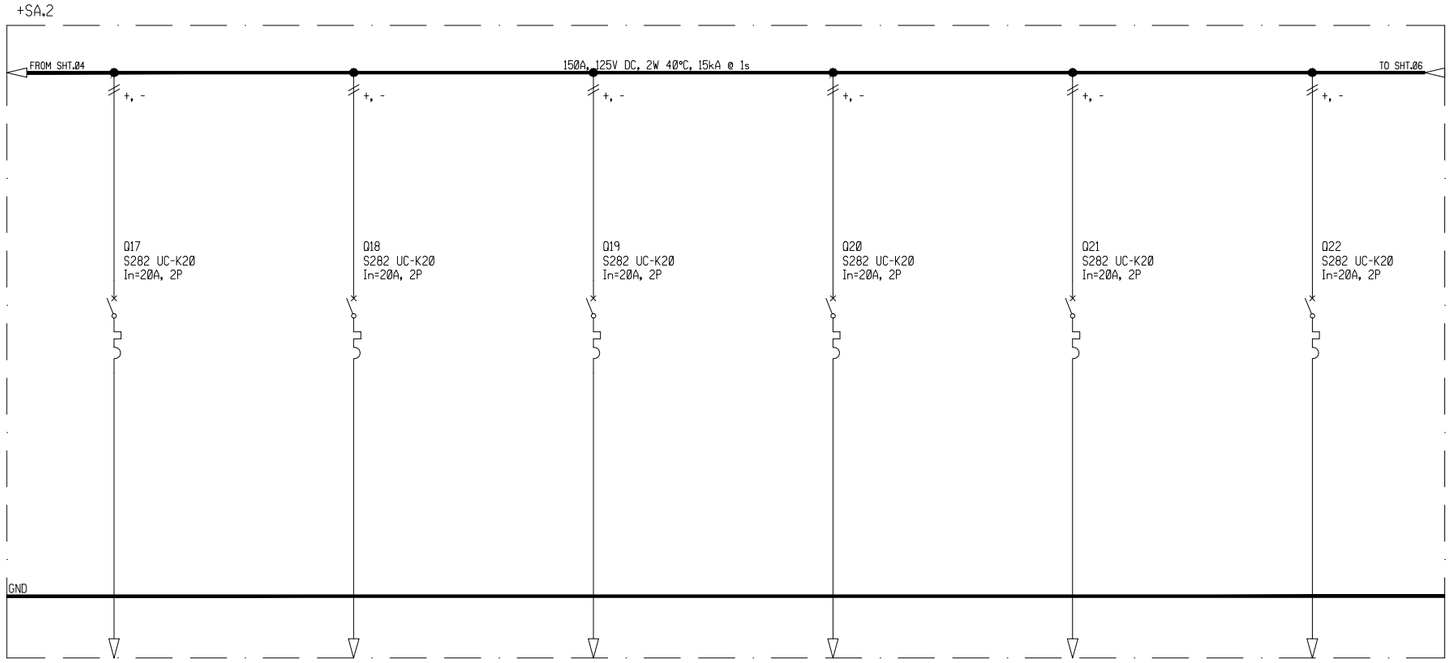
+SA.2



EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	33kV BUS SECTION-C OPERATING MECHANISM - -	33kV BUS SECTION-C I/C CB OPERATING MECHANISM - -	33kV BUS SECTION-C TC2 SUPPLY - - -	33kV BUS SECTION-C I/C TC2 SUPPLY - -	33kV BUS SECTION-C O/G TC2 SUPPLY - -	33kV BUS SECTION-C TC1/CC SUPPLY - - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm	2Cx6sq.mm

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SINGLE LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
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SEC-D (2004/10)

DMS VECTOR SECD00

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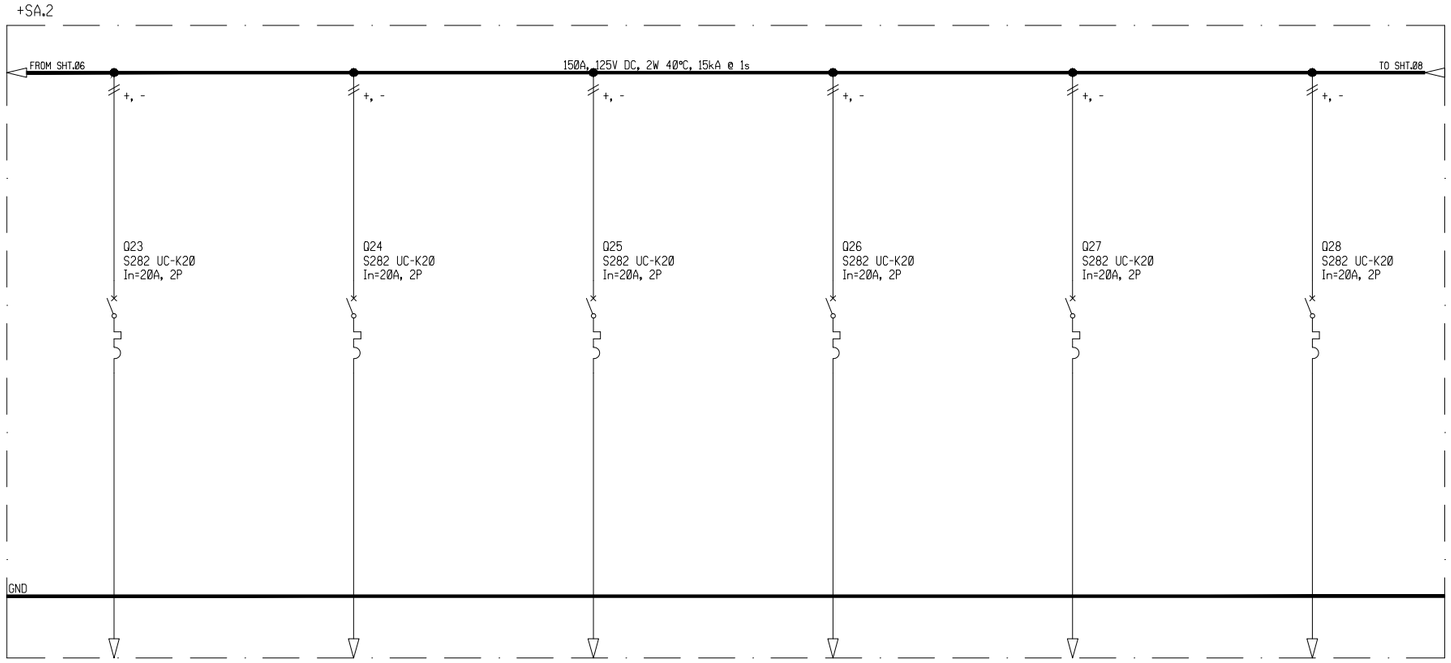

EQUIPMENT LABEL	-	-	-	-	-	-
ITEM DESCRIPTION	33kV BUS SECTION-C I/C CB TC1/CC SUPPLY - -	33kV BUS SECTION-C O/G CB TC1/CC SUPPLY - -	SPARE - - -	SPARE - - -	SPARE - - -	SPARE - - -
RATING (A, kW, kVA)	20A	20A	20A	20A	20A	20A
CUBICLE LOCATION	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2	+SA.2
MODULE SIZE	-	-	-	-	-	-
MODULE LOC.	-	-	-	-	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm	-	-	-	-

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SINGLE LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

JOB ORDER NO.	INDEX	PLANT NO.	DRAWING NUMBER	SHEET NO.	REV. NO.
11131061/00	P	C424	CD-289345	07 of 06	1

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SEC-D (2004/10)

DMS VECTOR SECD00

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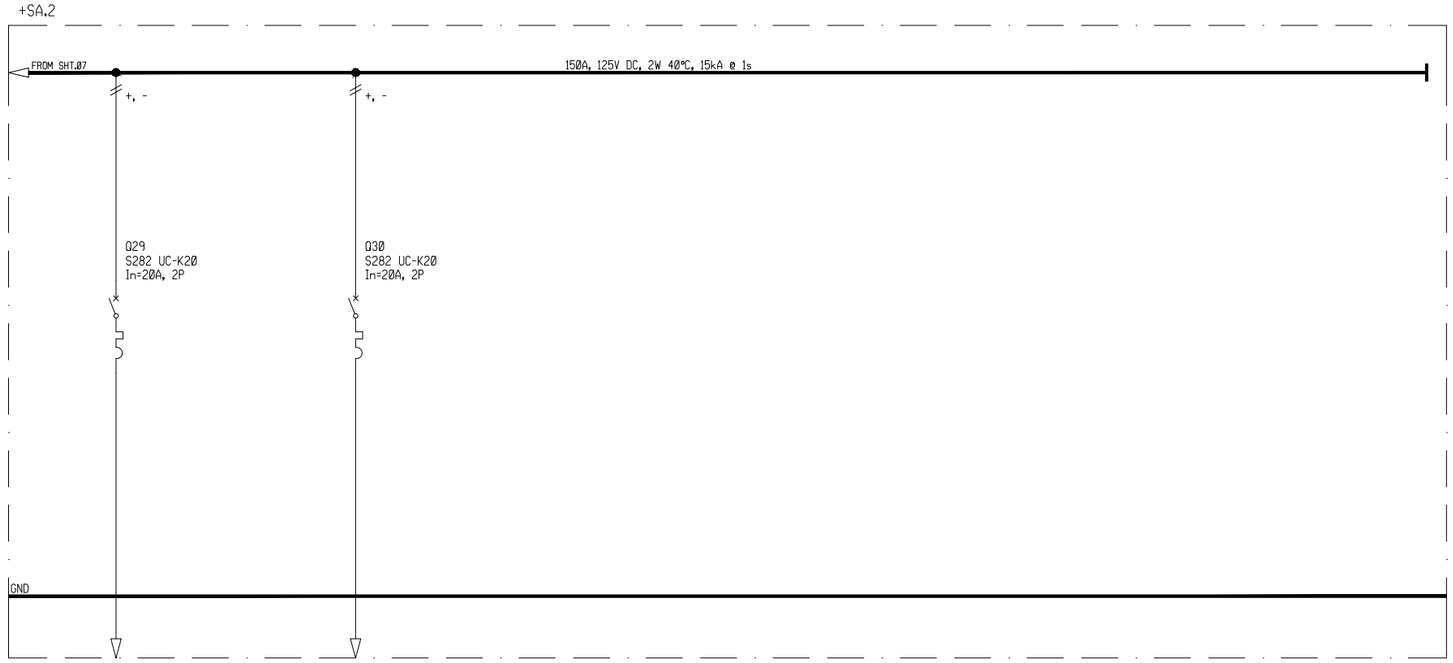
11131061/00	P	C424	CD-289345	08 of 06	1



EQUIPMENT LABEL	-	-
ITEM DESCRIPTION	SPARE - - -	SPARE - - -
RATING (A, kW, kVA)	20A	20A
CUBICLE LOCATION	+SA.2	+SA.2
MODULE SIZE	-	-
MODULE LOC.	-	-
CABLE SIZE	2Cx6sq.mm	2Cx6sq.mm

NOTES

REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO.
DRAWING CONTROL SHEET	CE-289148
ONE LINE DIAGRAM - DC AUXILIARY SYSTEM	CA-289211

AS-BUILT BY - DATE -

REV. NO.	DATE	BY	DESCRIPTION	CHKD.	CERT.	APPD.
1	29.04.13	EMM	REV. AS PER COMMENTS	CV	CV	DA
0	16.02.13	EMM	ISSUED FOR APPROVAL	CV	CV	DA

الشركة الوطنية لنقل الكهرباء — نقل الكهرباء National Grid SA

DRAWN BY E.MOJICA CHECKED BY C.VELEZ SCALE NTS

DATE STARTED 16.02.2013 DATE COMPLETED -

OPRG. DEPT. - ENG. DEPT. -

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CERTIFIED

BY - DATE -

SINGLE LINE DIAGRAM

NEW 125V DC DISTRIBUTION BOARD

REINFORCEMENT OF EXISTING 132/133KV S/S #8501 AL-MAJMAH S/S

RIYADH SAUDI ARABIA

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